

1      **WHAT IS CLAIMED IS:**

- 2            1. A console display for a host personal computer, comprising:
  - 3                a signal detection circuit being installed on a circuit board, wherein the
  - 4                signal detection circuit is connected to a specific hardware component in the host
  - 5                computer to continuously retrieve the operation status of the component;
  - 6                a dial meter being installed at a back of a face panel that has a display
  - 7                window on a front surface, wherein the dial meter is connected to an output of the
  - 8                signal detection circuit to display operation data value retrieved from the
  - 9                hardware component; and
- 10              a power circuit also being installed on the circuit board, wherein the
- 11              power circuit is used to convert the input power to an appropriate operating
- 12              voltage for the signal detection circuit and the dial meter.
- 13              2. The console display as claimed in claim 1, wherein the signal detection
- 14              circuit incorporates a revolution count circuit formed by a variable voltage
- 15              regulator, whereby the reference voltage input to the variable voltage regulator is
- 16              grounded through a variable resistor for changing voltage values, and another
- 17              input is connected to the output of the power circuit, and the output of the
- 18              variable voltage regulator is respectively connected to the power input of a
- 19              cooling fan and the input of the dial meter, such that the variations in voltage
- 20              output can be used to determine the rpm of the cooling fan and output a drive
- 21              signal to the dial meter.
- 22              3. The console display as claimed in claim 1, wherein the signal detection
- 23              circuit incorporates an audio output detection circuit, which is formed by a signal
- 24              processor connected in between the line output of the sound controller or sound

1 card and the dial meter to retrieve the output audio signal and output a drive  
2 signal to the dial meter.

3 4. The console display as claimed in claim 1, wherein the signal detection  
4 circuit incorporates a temperature detection circuit, which is formed by:

5 a temperature detector installable in close proximity to the central  
6 processor with the output connected to the dial meter for displaying continuous  
7 temperature values; and

8 a voltage regulator installable between the power circuit and the  
9 temperature detection circuit to supply the operating voltage for the temperature  
10 detection circuit.

11 5. The console display as claimed in claim 4, wherein the voltage  
12 regulator is formed by a resistor, a variable resistor, and a Zener diode.

13 6. The console display as claimed in claim 5, wherein the output of the  
14 voltage regulator is connected to the dial indicator through a grounded resistor.

15 7. The console display as claimed in claim 1, wherein the power circuit is  
16 formed by a voltage divider.